AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

 (Currently amended): A client side HTTP stack software component embodied in machine readable media and effectuated on a machine that processes requests, comprising:

at least one completion port object;

a thread pool comprising a plurality of threads that process <u>differentiable</u> tasks associated with at least one client side request; and

a client side state machine <u>selectively</u> associated with the at least one request, the client side state machine selected based at least in part on each <u>differentiable task</u>.

- 2. (Previously presented): The client side HTTP stack implementation of claim 1, further comprising a scheduler thread that activates an object scheduled to begin sending requests at a specific time.
- 3. (Previously presented): The client side HTTP stack implementation of claim 1, further comprising a DNS thread that resolves domain names into IP addresses.
- 4. (Previously presented): The client side HTTP stack implementation of claim 1, further comprising a timeout thread with a list of active sockets and timers associated with each socket, the timeout thread selectively times-out at least one socket according to at least one timer in the list.
- 5. (Previously presented): The client side HTTP stack implementation of claim 4, further comprising a scheduler thread that activates an object scheduled to begin sending requests at a specific time.

- (Previously presented): The client side HTTP stack implementation of claim 5, further comprising a DNS thread that resolves domain names into IP addresses.
- (Previously presented): The client side HTTP stack implementation of
 claim 4, further comprising a DNS thread that resolves domain names into IP addresses.
- 8. (Currently amended): A machine effectuated software component included on machine readable media that implements a client side HTTP stack, comprising:

a thread pool comprising N threads that process M requests from a client application component, where N and M are integers greater than 1 and where M is greater than N; and

a state machine associated with each of the M requests based at least on one or more tasks included as a part of each of the M requests.

- 9. (Previously presented): The software component of claim 8, further comprising at least one thread activation component that activates at least one of the N threads based on an event.
- 10. (Currently amended): The software component of claim 9, where the at least one thread activation component is a completion port.
- 11. (Currently amended): The software component of claim 9, where at least one of the N threads deactivates itself and returns to the thread pool when an operation being processed by the at least one of the threads is pending.
- 12. (Currently amended): The software component of claim 11, where the event is the receipt of a completion packet by the at least one thread activation component.

- 13. (Currently amended): The software component of claim 12, where the at least one thread activation component is a completion port.
- 14. (Previously presented): The software component of claim 13, further comprising a scheduler thread that activates an object scheduled to begin sending requests at a specific time.
- 15. (Previously presented): The software component of claim 14, further comprising a DNS thread that resolves domain names into IP addresses.
- 16. (Previously presented): The software component of claim 15, further comprising a timeout thread with a list of active sockets and timers associated with each socket, the timeout thread selectively times-out at least one socket according to at least one timer in the list.
 - 17. (Cancelled).
- 18. (Previously presented): The software component of claim 9, further comprising at least one key associated with at least one of the M requests, wherein a first one of the N threads is associated with the at least one of the M requests, and the thread activation component associates the context of the first one of the N threads with the at least one state machine using the at least one key, in order to activate the first one of the N threads.
- 19. (Currently amended): The software component of claim 18, where the thread activation component associates the context of one of the N threads with the at least one state machine using the at least one key in order to activate the one of the N threads based on an event.

- 20. (Previously presented): The software component of claim 8, further comprising a scheduler thread that activates an object scheduled to begin sending requests at a specific time.
- 21. (Previously presented): The software component of claim 8, further comprising a DNS thread that resolves domain names into IP addresses.
- 22. (Previously presented): The software component of claim 8, further comprising a timeout thread with a list of active sockets and timers associated with each socket, the timeout thread selectively times-out at least one socket according to at least one timer in the list.
- 23. (Currently amended): A method effectuated at least in part by a machine for implementing a client side HTTP stack, comprising:

processing M requests from a client application component using a thread pool comprising N threads, where M and N are integers greater than 1 and where M is greater than N; and

selectively associating a state machine with each of the M requests based at least in part on one or more differentiable task included in each of the M requests.

- 24. (Original): The method of claim 23, further comprising: selectively deactivating at least one of the N threads; and activating at least another of the N threads based on an event using at least one thread activation component.
- 25. (Currently amended): The method of claim 24, where the at least one thread activation component is a completion port.
- 26. (Currently amended): The method of claim 24, where selectively deactivating at least one of the N threads comprises deactivating the at least one of the N threads when an operation being processed by the at least one of the N threads is pending.

27. (Currently amended): The method of claim 26, where activating at least another of the N threads based on an event comprises:

receiving a completion packet using the thread activation component; and activating one of the N threads upon receipt of the completion packet using the thread activation component.

- 28. (Currently amended): The method of claim 27, where the at least one thread activation component is a completion port.
- 29. (Original): The method of claim 28, further comprising activating an object scheduled to begin sending requests at a specific time using a scheduler thread.
- 30. (Original): The method of claim 29, further comprising resolving domain names into IP addresses using a DNS thread.
- 31. (Original): The method of claim 30, further comprising selectively timing out at least one socket according to at least one timer associated with the at least one socket using a timeout thread comprising a list of active sockets and timers associated with each socket.
 - (Cancelled).
- 33. (Previously presented): The method of claim 23, further comprising: associating at least one key with at least one of the M requests; associating a first one of the N threads with the at least one of the M requests; and associating a context of the first one of the N threads with the at least one state machine using the at least one key, in order to deactivate the first one of the N threads.
- 34. (Original): The method of claim 33, further comprising associating a context of one of the N threads with the at least one state machine using the at least one key in order to activate the one of the N threads based on an event.

- 35. (Currently amended): A computer-readable medium having computer-executable instructions for processing M requests from a client application component using a thread pool comprising N threads, where M and N are integers greater than 1 and where M is greater than N, and associating a state machine with at least one of the M requests, the state machine selectively associated based on at least a task included in each of the M requests, the state machine activates at least one of the N threads based at least in part on the task.
- 36. (Original): The computer-readable medium of claim 35, further comprising computer-executable instructions for:

selectively deactivating at least one of the N threads; and activating at least another of the N threads based on an event using at least one thread activation component.

- 37. (Currently amended): The computer-readable medium of claim 36, where the at least one thread activation component is a completion port.
- 38. (Currently amended): The computer-readable medium of claim 36, where the computer-executable instructions for selectively deactivating at least one of the N threads comprises computer-executable instructions for deactivating the at least one of the N threads when an operation being processed by the at least one of the N threads is pending.
- 39. (Currently amended): The computer-readable medium of claim 38, where the computer-executable instructions for activating at least another of the N threads based on an event comprises computer-executable instructions for:

receiving a completion packet using the thread activation component; and activating one of the N threads upon receipt of the completion packet using the thread activation component.

- 40. (Original): The computer-readable medium of claim 39, further comprising computer-executable instructions for activating an object scheduled to begin sending requests at a specific time using a scheduler thread.
- 41. (Original): The computer-readable medium of claim 40, further comprising computer-executable instructions for resolving domain names into IP addresses using a DNS thread.
- 42. (Original): The computer-readable medium of claim 41, further comprising computer-executable instructions for selectively timing out at least one socket according to at least one timer associated with the at least one socket using a timeout thread comprising a list of active sockets and timers associated with each socket.
 - 43. (Cancelled).
- 44. (Previously presented): The computer-readable medium of claim 35, further comprising computer-executable instructions for:

associating at least one key with the at least one of the M requests;
associating a first one of the N threads with the at least one of the M requests; and
associating a context of the first one of the N threads with the at least one state
machine using the at least one key, in order to deactivate the first one of the N threads.

45. (Original): The computer-readable medium of claim 44, further comprising computer-executable instructions for associating a context of one of the N threads with the at least one state machine using the at least one key in order to activate the one of the N threads based on an event.

46. (Currently amended): A machine executed software component <u>resident</u> on machine <u>readable media</u> for implementing a client side HTTP stack, comprising:

means for processing M requests from a client application component using a thread pool comprising N threads, where M and N are integers greater than 1 and where M is greater than N; and

means for assigning each of the M requests with a state machine, the assignment of the state machine based on one or more differentiable tasks that comprises each of the M requests.

- 47. (Original): The software component of claim 46, further comprising: means for selectively deactivating at least one of the N threads; and means for activating at least another of the N threads based on an event.
- 48. (Original): The software component of claim 47, further comprising means for activating an object scheduled to begin sending requests at a specific time.
- 49. (Original): The software component of claim 47, further comprising means for resolving domain names into IP addresses.
- 50. (Original): The software component of claim 47, further comprising means for selectively timing out at least one socket according to at least one timer associated with the at least one socket.